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PROCEEDINGS
OF
THE ROYAL IRISH ACADEMY.

MONDAY, NOVEMBER 9, 1857.

JAMES HENTHORN TODD, D. D., President, in the Chair.

ON the recommendation of the Council the following Resolutions were adopted:—

1. To authorize the Treasurer to pay a sum of £41 5s. 11d., to liquidate the Balance of the cost of printing the Museum Catalogue and arranging the Museum,—this sum being in addition to the sum of £250 voted on the 16th March last.

2. That all moneys derived from the sale of the Catalogue, after the expenses of Advertising, &c., be devoted to the publication of the second part of that work.

Rev. R. Carmichael read a paper on some Brief Methods in the Integral Calculus.

Sir W. R. Hamilton gave an account of some researches of his own on the Theory of Definite Integrals.

MONDAY, NOVEMBER 30, 1857. (STATED MEETING.)

JAMES HENTHORN TODD, D. D., President, in the Chair.

In consequence of the unavoidable absence of the author, the following paper by the Rev. T. R. Robinson, D. D., was read by the President—

ON THE LIFTING POWERS OF ELECTRO-MAGNETS.

This paper constituted the third part of Dr. Robinson's researches on the lifting power of the Electro-magnet. In it he examines the dependence of this power on the length and inductivity of the magnetic circuit which is formed when the poles are connected by a keeper. Whatever lessens the inductivity, lessens the magnetic power. If the circuit be incomplete, or if the middle of the keeper or of the magnet be brass, the power decreases to 0·70 or 0·08, or even to 0·02 of its normal amount. Plates of brass 0·12 thick interposed between the keeper and poles produce a similar effect; and even the minute interval which re-